

# United States Patent and Trademark Office

ENITED STATES DEPARTMENT OF COMMERCE Enited States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/918,365	07/30/2001	Eugene T. Michal	ACS 55933	1073
75	590 02/23/2005		EXAM	INER
CHARLES E. RUNYAN JR. PH.D			MICHENER, JENNIFER KOLB	
	DERS & DEMPSEY LLP ME PLAZA, SUITE 300		ART UNIT	PAPER NUMBER
SAN FRANCISCO, CA 94111-3492			1762	

DATE MAILED: 02/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/918,365	MICHAL ET AL.			
Office Action Summary	Examiner	Art Unit			
	Jennifer K. Michener	1762			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
<ul> <li>1) ⊠ Responsive to communication(s) filed on 29 M</li> <li>2a) ☐ This action is FINAL.</li> <li>2b) ☒ This</li> <li>3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E</li> </ul>	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-46 is/are pending in the application. 4a) Of the above claim(s) 19-33 and 35-38 is/as 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-18 and 34 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	re withdrawn from consideration.				
Application Papers					
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 30 July 2001 is/are: a) ☐ Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	☑ accepted or b)☐ objected to t drawing(s) be held in abeyance. Sec ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign  a) All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priority application from the International Bureau  * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)	<b>∧</b> □ 1010	(DTO 440)			
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ol>	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

Application/Control Number: 09/918,365 Page 2

Art Unit: 1762

#### **DETAILED ACTION**

## **Double Patenting**

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1-18 and 34 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-9 and 14 of U.S. Patent No. 6,221,425 and claims 1-17 of U.S. Patent No. 6,656,517. Although the conflicting claims are not identical, they are not patentably distinct from each other. While grouped together in different ways, the limitations of the instant application are present throughout the claims of the patents.

### Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

- (e) the invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).
- 4. The rejection of claims 1-3, 5, 7, 11-12, 15-17 under 35 U.S.C. 102(b) as being anticipated by Cahalan et al. (US Pat. 5,607,475) has been withdrawn in light of Applicant's amendments and statements.
- 5. Claims 1-12, 15-17, 34 are rejected under 35 U.S.C. 102(e) as being anticipated by Michal et al. (U.S. 6,287,285 B1).

The applied reference has a common inventor with the instant application.

Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Regarding claims 1-3, 11, 16-17, and 34, Michal et al. teach a method of immobilizing heparin, an anti-thrombogenic agent, to an implantable medical device, such as a stent. A base coat is applied to and polymerized on the device to which the heparin is attached via functional groups. Regarding claim 4, the base coat of Michal comprises a

grafting material, binding material, photoinitiator, and a solvent. The binding component of Michal may be an amine or aldehyde group, such as cinnamaldehyde, as required in claims 5-6, and the grafting component may be polyurethane acrylate, as required in claims 7-8. The stent coating is polymerized by irradiating with UV light for 8 minutes, as required by claim 9. The solvent of Michal may be ketone compounds or water, as required by claims 10 and 12. Regarding claims 15, the binding component of Michal may be an amine which is the functional group required by Applicant in his specification to meet the definition of "end immobilization". (See abstract; col. 2, lines 15-30, 55-57; col. 4, line 7; col. 6, lines 55-65; col. 7, lines 30-35, 59, and 67; col. 8; col. 10, line 55-col. 11, line 15; col. 13, lines 22-28; Example 4.)

### Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Application/Control Number: 09/918,365 Page 5

Art Unit: 1762

8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

- 9. The rejections of claims 14 and 18 under 35 U.S.C. 103(a) as being unpatentable over Cahalan et al. have been withdrawn in light of Applicant's amendments and arguments.
- 10. The rejection of claims 14 and 18 under 35 U.S.C. 103(a) as being obvious over Michal et al. has been withdrawn in light of Applicant's statement of common ownership.
- 11. The rejections of claim 13 under 35 U.S.C. 103(a) as being unpatentable over either Cahalan or Michal in view of Hughes et al. have been withdrawn in light of Applicant's amendments and/or arguments and statement of common ownership, respectively.

Art Unit: 1762

#### Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer K. Michener whose telephone number is (571) 272-1424. The examiner can normally be reached on Thursdays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shrive P. Beck can be reached on 571-272-1415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JENNIFER MICHENER PRIMARY EXAMINER

204 Milen

Art Unit 1762 February 22, 2005